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Abstract

A clay composite material comprises an organic clay mineral prepared by ionic bonding of organic onium ions 6 having unsaturated carbon chains of at least 6 carbon atoms, guest molecules with polar groups in the molecules and with an unsaturated carbon chain whose molecular length is the same as or larger than that of the organic onium ions, and a crosslinking agent capable of forming crosslinked bonds between the unsaturated bonds of the organic onium ions and the unsaturated bonds of the guest molecules. The guest molecules are preferred to be oligomers or polymers of molecular weight 1000 to 100,000. The clay composite material is preferably kneaded in a rubber material.

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